

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claim 1-6 and ADD new claims 7-23 in accordance with the following:

1. (Currently Amended) A semiconductor device loading apparatus for test handlers, comprising:

a body including a plurality of pickup cylinders provided with a plurality of vacuum adsorbers ~~for to~~ vacuum-sucking and to transfer semiconductor ~~and transferring~~ devices to be tested, a space adjusting plate ~~for to~~ adjusting pitches of the vacuum adsorbers, and an elevation guiding ~~means for guiding unit to guide one of~~ lifting and lowering of the space adjusting plate; and

a guide block fixing plate, ~~formed to be separate from the body, for guiding to guide~~ the semiconductor devices to be accurately positioned in pockets of a test tray, respectively.

2. (Currently Amended) The semiconductor device loading apparatus according to claim 1, wherein said space adjusting plate is provided with a plurality of guide slots formed to allow spaces therebetween to be downwardly narrowed so as to adjust the pitches of the vacuum adsorbers, and said vacuum adsorbers are each provided with a guide projection adapted to ~~be inserted to~~ a respective one of the guide slots.

3. (Currently Amended) The semiconductor device loading apparatus according to claim 1, wherein said guide block fixing plate is positioned to be downwardly spaced apart from the vacuum adsorbers and upwardly spaced apart from the test tray, and is provided with guide blocks of a number equal to ~~the a~~ number of the pockets of the test tray.

4. (Currently Amended) The semiconductor device loading apparatus according to claim 3, wherein said guide blocks are each provided with an opening sized to be equal to a size of each of the semiconductor devices, and with a pair of guide pins downwardly ~~extended~~extending from front and rear edges thereof.

5. (Currently Amended) The semiconductor device loading apparatus according to claim 4, wherein:

each of the pockets includes a pair of pin holes formed in front and rear edges thereof; and

each of said guide pins ~~each~~ have a diameter smaller than a diameter of a respective one each of the pin holes ~~formed in front and rear edges of the pocket~~, and said guide pins are spaced apart from each other by a space equal to a space between the pair of pin holes.

6. (Currently Amended) The semiconductor device loading apparatus according to claim 3, wherein each said openings ~~each~~ comprises an entrance portion formed on an upper surface of the guide block and sized to be slightly larger than a size of a respective each of the semiconductor devices to ~~easily~~ receive the respective semiconductor device, an exit portion formed on a lower surface of the guide block and sized to be substantially equal to ~~a~~ the size of the respective semiconductor device to allow the respective semiconductor device to pass therethrough, and a guide portion formed between the entrance and exit portions and tapered from the entrance portion to the exit portion.

7. (New) A semiconductor device loading apparatus, comprising:
a plurality of device loading units to load semiconductor devices;
a space adjusting unit; and
an elevation control unit coupled to the space adjusting unit and controlling an elevation of the space adjusting unit to change a spacing between respective adjacent device loading units in accordance with the elevation of the space adjusting unit.

8. (New) The semiconductor device loading apparatus according to claim 7, further comprising:

a guide block fixing unit provided adjacent to the plurality of device loading units to guide the semiconductor devices therethrough to pockets of a test tray, respectively.

9. (New) The semiconductor device loading apparatus according to claim 7, wherein said space adjusting unit comprises:

a plurality of space changing units corresponding to the plurality of device loading units to change each respective spacing between adjacent device loading units.

10. (New) The semiconductor device loading apparatus according to claim 7, wherein each respective spacing between adjacent device loading units is narrowed, when the elevation of the space adjusting unit is increased.

11. (New) The semiconductor device loading apparatus according to claim 7, wherein each respective spacing between adjacent device loading units is widened, when the elevation of the space adjusting unit is decreased.

12. (New) The semiconductor device loading apparatus according to claim 9, wherein each space changing unit comprises:

a guide slot formed on the space adjusting unit; and

a guide projection formed on a respective one of the device loading units to insert into the guide slot corresponding to a respective one of the device loading units.

13. (New) The semiconductor device loading apparatus according to claim 8, wherein the guide block fixing unit is remote from the device loading units and the test tray, and is provided with guide blocks of a number equal to a number of the pockets of the test tray.

14. (New) The semiconductor device loading apparatus according to claim 13, wherein each of the guide blocks is provided with an opening formed therein which is equal in a size thereof to a size of each of the semiconductor devices, and having a pair of guide pins extending toward the test tray from front and rear edges thereof.

15. (New) The semiconductor device loading apparatus according to claim 14, wherein each of the pockets includes a pair of pin holes corresponding to the pair of guide pins such that each of the guide pins have a diameter smaller than a diameter of a corresponding one of the pin holes, and each of guide pins of respective pairs of guide pins are spaced apart from each other by a space equal to a space between a corresponding pair of pin holes.

16. (New) The semiconductor device loading apparatus according to claim 13, wherein each of the guide blocks comprises an open portion having an entrance portion formed on one surface of the guide block and an exit portion formed on another surface of the guide block such that the entrance portion is larger in a size thereof than a size of the exit portion and a respective semiconductor device is substantially equal in a size thereof to the size of the exit portion to allow the semiconductor device to pass therethrough.

17. (New) The semiconductor device loading apparatus according to claim 8, wherein the plurality of device loading units, the space adjusting unit and the elevation control unit move separately from the guide block fixing unit.

18. (New) A method of loading a semiconductor device with a loading apparatus for test handlers, comprising:

adjusting pitches of vacuum adsorbers by one of lifting and lowering of a space adjusting plate;

vacuum-sucking and transferring the semiconductor devices to be tested to the plurality of vacuum adsorbers; and

guiding the vacuum-sucked and transferred semiconductor devices to be positioned in pockets of a test tray, respectively.

19. (New) A method of loading semiconductor device, comprising:

changing a spacing between adjacent device loading units in accordance with an elevation of a space adjusting unit by controlling an elevation thereof; and

loading the semiconductor devices in accordance with the changed spacing.

20. (New) The method according to claim 19, wherein the loading of the semiconductor devices comprises:

passing each of the semiconductor devices through a guide block to position the semiconductor devices on a test tray.

21. (New) The method according to claim 19, wherein the changing of the spacing between adjacent device loading units comprises:

narrowing of the spacing, when the elevation of the space adjusting unit is increased.

22. (New) The method according to claim 19, wherein the changing of the spacing between adjacent device loading units comprises:
widening of the spacing, when the elevation of the space adjusting unit is decreased.

23. (New) A semiconductor device loading apparatus for test handlers, comprising:
a body including a plurality of pickup cylinders provided with a plurality of vacuum adsorbers to vacuum-suck and to transfer semiconductor devices to be tested, a space adjusting plate to adjust pitches of the vacuum adsorbers, and an elevation guiding unit to guide one of lifting and lowering of the space adjusting plate such that, when the space adjusting plate is lifted or lowered, the pitches of the vacuum adsorbers are adjusted; and
a guide block fixing plate formed to be separate from the body to guide the semiconductor devices to be accurately positioned in pockets of a test tray, respectively.